## CLAIM AMENDMENTS

Claims 1 to 28 (cancelled).

- 29. (new) A process for deformation of an element by the application of con rolled pressure on said element or for coupling a thermoplastic material and fibers of a composite of co-mixed fibers which comprises one of the steps of:
- 5 (a) applying pressure to said element through compression
  6 means sensitive to the variation of the chemical-physical
  7 characteristics of said element when it is subjected to a
  8 predetermined temperature; and
- 9 (b) applying a calibrated pressure onto the composite

  10 with compression means sensitive to the variation of the

  11 chemical-physical characteristics of said thermoplastic material

  12 when it is subjected to a predetermined temperature.
- 30. (new) The process defined in claim 29 wherein said compression means is made from a heat-shrinking product.
- 31. (new) The process defined in claim 29 wherein said compression means is made from a tensoelastic product.

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32. (new) The process defined in claim 29 wherein said element is made from thermoplastic material.

- 33. (new) The process defined in claim 32 wherein said element is made from thermoplastic composite material.
- 34. (new) The process defined in claim 33 wherein said thermoplastic composite material comprises at least one substance selected from glass, carbon, Kevlar, natural or metal fibers and mixtures thereof.
- 35. (new) The process defined in claim 33 wherein said
  thermoplastic composite material is made with a thermosetting
  composite material before a polymerization step.
- for an element through the application or calibrated pressure on
  it, wherein said element is made from thermoplastic material and in
  that said pressure is realized through compression means arranged
  on an outer surface of a zone of the element that one wishes to
  deform and suitable for applying said pressure when said composite
  element is taken to a temperature at which its chemical-physical

characteristics change and it reaches a predetermined degree of

malleability.

- 37. (new) A process as defined in claim 29 for realizing
  an element on a mold, characterized in that said element is made
  from thermoplastic material that can be applied to the mold and on
  which calibrated pressure is applied through compression means
  suitable for applying said pressure when said thermoplastic
  composite element is taken to a temperature at which its
  chemical-physical characteristics change and it reaches a
  predetermined degree of malleability.
- between a thermoplastic material and fibers of a composite of
  co-mixed fiber, wherein a calibrated pressure is applied onto the
  composite realized through compression means arranged on the outer
  surface of said composite of co-mixed fiber and suitable for
  applying said pressure when said thermoplastic material is taken to
  a temperature which its chemical-physical characteristics change in
  such a way as to determine the impregnation thereof with said
  fibers.

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1 39. (new) A deformation process of an element defined

- in claim 29 wherein said element has a core inside of it to
- configure it with a shape matching said core.
- 1 40. (new) The deformation process defined in claim 39
- wherein said core is removable.
- 1 41. (new) The deformation process defined in claim 39
- wherein said core is wooden and is integrally connected to said
- element.
- 1 42. (new) The deformation process defined in claim 39
- wherein said core is made from plastic and is fixedly connected to
- said element through a chemical link due to the compatibility of
- 4 plastic with the resin matrix of the composite.
- 1 43. (new) The deformation process defined in claim 29
- wherein said core is an integral part of another element such as a
- tool or connection member.

44. (new) The deformation process defined in claim 39
wherein said core is made from a thermally conductive material to
take said element to said predetermined temperature.

- 45. (new) The deformation process defined in claim 39
  wherein said core has a surface configuration suitable for
  realizing a deformation zone with the same configuration only on an
  inner surface of said element.
- 46. (new) The deformation process defined in claim 39
  wherein said core has a surface configuration suitable for
  realizing a deformation zone with the same configuration on inner
  and outer surfaces of said element.
- 47. (new) The deformation process defined in claim 36
  wherein said zone is coated with a thermoplastic composite
  material having arrangement of the fibers perpendicular to those of
  said element.
- 48. (new) The deformation process defined in claim 29
  wherein said compression means is a shrinking or tensoelastic
  product in the form of a sheath, band or cap, to be uniformly

associated with the outer surface of said element at a temperature

- lower than said predetermined temperature.
- 1 49. (new) The deformation process of an element
- according to claim 29 wherein said compression means is a heat
- shrinking product activated at an activation temperature
- 4 close to said predetermined temperature at which said element
- 5 becomes malleable.
- 50. (new) The coupling process according to claim 29
- wherein said composite of co-mixed fiber has one or more layers
- that can be applied to a mold.
- 1 51. (new) The coupling process according to claim 50
- wherein at least one insert is present between the layers of said
- 3 co-mixed fiber composite.
- 1 52. (new) The coupling process according to claim 50
- wherein layers of said co-mixed fiber composite have different
- orientations of the fibers.

53. (new) A deformed element made from thermoplastic
material and having a deformation obtained through the action of a

heat shrinking or tensoelastic product associated with the outer

surface.

1 54. (new) The use of a heat shrinking or tensoelastic

product associated with the outer surface of a thermoplastic

composite element for its deformation.